

# ORION

CREW EXPLORATION VEHICLE

WEEKLY ACCOMPLISHMENTS



06.18.10



The boilerplate crew module that was the focus of the recent Orion Launch Abort System Pad Abort-1 flight test at the U.S. Army's White Sands Missile Range in New Mexico on May 6 has been returned to NASA's Dryden Flight Research Center. The crew module and its separation ring (shown above) were airlifted back to NASA Dryden at Edwards Air Force Base on June 15 from Holloman Air Force Base aboard a Mississippi Air National Guard C-17. The success of the PA-1 launch has opened an opportunity to re-fly the PA-1 crew module on another launch abort test flight in 2012, which will save time in the schedule and significantly lower costs.



**Mechanical assembly work that is required for the upcoming proof pressure testing continues on the Crew Module Ground Test Article (GTA) at the Michoud Assembly Facility in New Orleans, LA.** Prep work has begun on the Forward Bay area (shown left) for the installation of the gussets as well as the retention and release brackets. In addition, the final connections have been made of the backbone assembly to the Crew Module barrel assembly longeron (shown in banner.) Prep work will continue over the next few weeks before the GTA is moved from it's current location to the proof pressure test area.

**The Operations & Checkout Facility at KSC continues to make progress to begin Orion production operations later this year as the “Orion Factory of the Future” takes shape.** The first major tooling structure (shown right) is nearing operational status with the final installation and testing taking place this week. Designed with portability in mind to reduce overall program costs, the tool will be put into service at several Orion facilities across the country including NASA’s Michoud Assembly Facility in New Orleans, La., Langley Research Center in Hampton, Va. as well as at Kennedy Space Center, Florida.



**Hensel Phelps Construction Company and BRPH recently received the prestigious Association of General Contractors (AGC) Aon Build America Award for the Operations and Checkout (O&C) building renovation effort at Kennedy Space Center in Florida.**

Shown in left photo holding the AGC Aon Build America Award from left are Kirk Hazen, Hensel Phelps District Vice President; Brad Winans, Hensel Phelps Operational Manager; Tom Mott, Lockheed Martin O&C Project Manager; and Scott Shelby, Hensel Phelps Project Manager.

**Members of the Orion team were recognized with the Space Flight Awareness Leadership Award for their dedication and contributions to Orion's success.** Awardees included Timothy Knowles and Carlos Ramirez at Michoud Assembly Facility, Lauren Larson and Anthony Stechschulte from Hamilton Standard and Sue Motil and Tom Cressman from Glenn Research Center. Each recipient was given an Orion model as part of the Leadership Award. Shown right is Sue Motil and Tom Cressman after receiving their award from Orion Project Manager Mark Geyer and Lockheed Martin Deputy Program Manager Larry Price at a recent visit to Glenn Research Center on June 9.

